

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings of claims in the application:

Claim 1 (Currently Amended): A method for producing a surface ~~surfaces which have self-cleaning properties and a surface structure with elevations which are formed by the microparticles, the surfaces produced having not only self-cleaning properties but also oleophobic, lipophobic and lactophobic properties,~~

the method comprising:

fixing microparticles to a carrier layer or a substrate either before or after hydrophobizing of said microparticles;

hydrophobizing said microparticles with components i) or ii):

i) an oligomer of a fluorosilane or a fluorosiloxane ~~fluorosilanes or fluorosiloxanes, or~~

ii) a mixture of

a) an oligomer of a fluorosilane or a fluorosiloxane, and

b) a fluorosilane or a fluorosiloxane,

to form a resulting surface having a surface structure,

the surface structure having elevations which are formed by said microparticles,

said elevations having ~~with~~ a mean height of from 20 nm to 25 μm and a mean separation of from 20 nm to 25 μm ,

the microparticles having a particle diameter of from 0.02 to 100 μm and having been hydrophobized with ~~fluoroalkylalkoxysilanes~~ components i) or ii);

the resulting surface having self-cleaning, oleophobic, lipophobic and lactophobic properties.

Claim 2 (Previously Presented): The method as claimed in claim 1,
wherein the microparticles are pyrogenic silica or precipitated silica particles
hydrophobized with fluoroalkylalkoxysilanes.

Claim 3 (Previously Presented): The method as claimed in claim 1,
wherein the surfaces are the surfaces of textiles, advertising media, awning materials,
covering films, industrial nonwovens, items of clothing, outdoor clothing, rainwear,
workwear, children's clothing, protective clothing, semifinished products, films or articles
made of plastic.

Claim 4 (Withdrawn): An article with at least one surface with self-cleaning,
hydrophobic, lipophobic, oleophobic and lactophobic properties,
wherein the article is coated with the hydrophobized microparticles of claim 1.

Claim 5 (Withdrawn): The article as claimed in claim 4,
wherein the article is a textile, an advertising medium, an awning material, a covering
film, an industrial nonwoven, an item of clothing, an outdoor clothing,
a rainwear, a workwear, a children's clothing, a protective clothing, a semifinished product, a
film or an article made of plastic.

Claim 6 (New): The method as claimed in claim 1, wherein the mean height is from
50 nm to 10 μm and the mean separation is from 50 nm to 10 μm .

Claim 7 (New): The method as claimed in claim 1, wherein the mean height is from
50 nm to 4 μm and the mean separation is from 50 nm to 4 μm .

Claim 8 (New): The method as claimed in claim 1, wherein the resulting surface has elevations with a mean height of from 0.25 to 1 μm and a mean separation of from 0.25 to 1 μm .

Claim 9 (New): The method as claimed in claim 1, wherein the resulting surface has a static contact angle of greater than 130°.

Claim 10 (New): The method as claimed in claim 1, wherein the resulting surface has a difference between advancing and receding angle of not more than 10°.

Claim 11 (New): The method as claimed in claim 1, wherein the resulting surface has a surface structure having an aspect ratio of the elevations of greater than 0.15.

Claim 12 (New): The method as claimed in claim 1, wherein the resulting surface has elevations which are formed by the microparticles themselves having an aspect ratio of from 0.3 to 1.

Claim 13 (New): The method as claimed in claim 1, wherein the microparticles penetrate at least partly into the surface.

Claim 14 (New): The method as claimed in claim 1, wherein the resulting surface has elevations which are formed by the microparticles themselves having an aspect ratio of less than 1.

Claim 15 (New): The method as claimed in claim 1, wherein the microparticles lie on the surface and are bonded to it by a physical force.

Claim 16 (New): The method as claimed in claim 1, wherein the microparticles which form the elevations of the structured surface are those which have an irregular fine structure in the nanometer range on the surface.

Claim 17 (New): The method as claimed in claim 16, wherein the microparticles with the irregular fine structure have elevations or fine structures with an aspect ratio of greater than 1.

Claim 18 (New): The method as claimed in claim 1, wherein the microparticles or the entire resulting surface after the application of the microparticles to the surface is hydrophobized again with fluorosilanes or fluorsiloxanes.

Claim 19 (New): The method as claimed in claim 1, wherein more than 50% of the particles are embedded into the surface up to an extent of 90% of their mean diameter.